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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

PHAM, THIERRY L

ART UNIT PAPER NUMBER

2624

DATE MAILED: 03/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/769,923

Applicant(s)

ABOUJAOUDE ET AL.

Examiner

Thierry L Pham

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2004.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 4-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

- This action is responsive to the following communication: an Amendment filed on 11/3/04.
- Claims 1-2, 4-18 are pending in application; Claim 3 has been canceled.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 12 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification does not provide an adequate written description of the limitations as recited in claim 1, wherein “automatically detecting dimensions of said original portion of said input said input image and automatically determining a predetermined number of repeated original portions of said input images able to be printed on a single printing medium”; therefore, it does not enable one skilled in the art to make, use and/or practice the invention. According to the originally filed specification (page 9, lines 25-35), when automatic scanning features are enabled, an entire image (i.e. dimensions) is scanned rather than only a portion of the image.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Abuyama (U.S. 5144452).

Regarding claim 1, Abuyama discloses a method of forming an output image in an image forming system (image forming system, fig. 2), comprising:

- instructing (instructing via a control panel 80, fig. 2) the system to duplicate an original portion (portion of original image to be duplicate, i.e., character A as shown in fig. 4, col. 7, lines 15-28, fig. 4) of an input document;
- producing (CCD, col. 4, lines 6-20) image data corresponding to the original portion of the input document;
- forming (thermal print head 24a, fig. 2) a duplicate image (duplicating an original image on a single print media, fig. 4-7) of the original portion of the input document; and
- reproducing the duplicate image data a selected number of times (predetermined of times to be duplicated on a single print medium, i.e. character A to be duplicated multiple times as shown in fig. 5 and fig. 7b) on a printing medium.

Regarding claim 2, Abuyama further discloses the method of claim 1, further comprising selecting the number of times (duplication number designater 86, fig. 2)said input image is replicated to form said output image on said printing medium.

Regarding claim 4, Abuyama further discloses the method of claim 1, further comprising receiving user instructions (instruction via control panel, fig. 2) to duplicate only a specific portion of an original document.

Regarding claim 5, Abuyama further discloses a method of forming an output image in an image forming system, comprising:

- obtaining instructions (fig. 7) relating to image formation;
- obtaining input data relating to an original portion (input coordinates, fig. 7a) of an input image and based at least partially on said instructions; and
- forming (thermal head engine 24a, fig. 2) said output image comprising said original portion of the input image replicated one or more times (fig. 7b) on a single printing medium as directed by said instructions.

Regarding claim 6, Abuyama further discloses a method according to claim 5, wherein said obtaining instructions including communicating with a user through a user interface (display 100, fig. 2) and receiving instructions to duplicate only a specific portion of an original document form output image.

Regarding claim 7, Abuyama further discloses the method according to claim 5, wherein said obtaining instructions include receiving of instructions as to which specific original portion (instruction to duplicate portion of original image, fig. 7a-7b) of said input image is to be replicated.

Regarding claim 8, Abuyama further discloses the method according to claim 5, wherein said obtaining instructions include receiving instructions as to a number of replications (figs. 4-5) of said original portion of said input image to be replicated.

Regarding claim 9, Abuyama further discloses the method according to claim 5, wherein obtaining input image data include scanning (read image ST13, fig. 7b) a specific portion of an image to be printed.

Regarding claim 10, Abuyama further discloses the method of claim 5, wherein obtaining input data include receiving a signal from a remote device containing said input image data (inherently, the image forming system as shown in fig. 1 also can be connected to plurality of external devices, i.e. host computer, scanner, and etc, and such system are widely available in the art).

Regarding claim 11, Abuyama further discloses the method according to claim 5, wherein forming the output image include printing said original portion of said input image in a repeated fashion up to a predetermined number (predetermined number of times to be duplicated on a single print media, fig. 7a-7b) in occurrence with said instructions.

Regarding claim 12, Abuyama further discloses the method according claim 5, further

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comprising automatically detecting dimensions (dimension as shown in fig. 4-5, col. 7, lines 5-67) of said original portion of said input image and automatically determining a predetermined number of repeated original portions (main controller 81 for calculating and determining number of duplicates to be printed on a single sheet of print media, cols. 7-8) of said input images able to be printed on a single printing medium.

Regarding claim 13, Abuyama further discloses the method of claim 5, further comprising allowing a user to specify an offset (left margin, fig. 7b) for said input image on said printing medium.

Regarding claim 14, Abuyama further discloses an image forming system (fig. 2), comprising:

- an image input stage (ST1, fig. 7A) for receiving image data corresponding to an input image;
- a control stage (control panel 80, fig. 2) for selecting at least an original portion of said input image and replicating said original portion a predetermined number of times (predetermined of times to be duplicated, fig. 7a-7b) to form an output image; and
- an image output stage (print engine, fig. 2) for producing said output image on a printing medium.

Regarding claim 15, Abuyama further discloses the system of claim 14, wherein said control stage comprises a user interface (display 100, fig. 2) for selecting the number of times said original portion of said input image replicated in said output image on said printing medium.

Regarding claim 16, Abuyama further discloses the system of claim 14, wherein said control stage comprises a user interface (display 100, fig. 2) for providing printing instructions.

Regarding claim 17, Abuyama further discloses the system of claim 14, wherein said control stage determines the number of print image replications that can be reproduced (abstract and col. 1, lines 33-36) in said output image on said printin medium.

Regarding claim 18, Abuyama further discloses the system of claim 14, wherein said control stage can automatically calculate maximum number of reproductions (abstract and col. 1, lines 33-65) of said original portion of said input image possible for said single printing medium.

Response to Arguments

Applicant's arguments, see pages 5-7, filed on 11/3/04, with respect to the rejection(s) of claim(s) 1 under 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly found prior art reference due to newly added limitations.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- U.S. 5995722 to Kishida, teaches an example of a printer can be connected to plurality of external devices.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

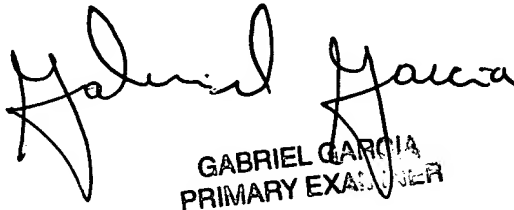
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thierry L Pham whose telephone number is (703) 305-1897. The examiner can normally be reached on M-F (9:30 AM - 6:00 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K Moore can be reached on (703)308-7452. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thierry L. Pham



GABRIEL GARCIA
PRIMARY EXAMINER